

	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050152407 A1	20050714	10	Output clock adjustment for a digital I/O between physical layer device and media access controller	370/508
2	US 20050084020 A1	20050421	25	Data receiving device	375/257
3	US 20050025222 A1	20050203	28	System and method for despreading in a spread spectrum matched filter	375/141
4	US 20050018759 A1	20050127	27	System and method for despreading in a spread spectrum matched filter	375/152
5	US 20040008730 A1	20040115	17	System and method for improved synchronous data access	370/505
6	US 20030189985 A1	20031009	41	Data communication method and data communication device and semiconductor device	375/259
7	US 20030179779 A1	20030925	13	Apparatus for controlling data transmission/reception between main system and remote system of BTS in mobile communication system	370/503
8	US 20030161409 A1	20030828	41	Data communication method and data communication device and semiconductor device	375/260
9	US 20030156653 A1	20030821	42	Data communication method and data communication device and semiconductor device	375/259
10	US 20030156603 A1	20030821	149	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	370/485
11	US 20030099253 A1	20030529	13	Apparatus and method for arbitrating data transmission amongst devices having SMII standard	370/462
12	US 20030095618 A1	20030522	22	Data transmitting unit, data communicating apparatus and data communicating method	375/354
13	US 20030081688 A1	20030501	41	Data communication method and data communication device and semiconductor device	375/259
14	US 20030031133 A1	20030213	15	Line loop back for very high speed application	370/241
15	US 20020146084 A1	20021010	12	Apparatus and method for oversampling with evenly spaced samples	375/360

	<b>Current XRef</b>	<b>Inventor</b>
<b>1</b>	370/503	Pflum, Marty
<b>2</b>		Kikuchi, Hidekazu
<b>3</b>		Underbrink, Paul A. et al.
<b>4</b>		Underbrink, Paul A. et al.
<b>5</b>	375/359	Helzer, Amir
<b>6</b>		Okuda, Yuichi et al.
<b>7</b>	370/466	Kim, Kyou-Seung
<b>8</b>		Okuda, Yuichi et al.
<b>9</b>		Okuda, Yuichi et al.
<b>10</b>		Rakib, Selim Shlomo et al.
<b>11</b>	370/461; 370/466	Kim, Mee Sun
<b>12</b>		Iseki, Yukimasa
<b>13</b>		Okuda, Yuichi et al.
<b>14</b>	370/249	Momtaz, Afshin D.
<b>15</b>	375/376	Cranford, Hayden Clavie JR. et al.

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16	US 20020015423 A1	20020207	148	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	370/485
17	US 20020006177 A1	20020117	14	Parallel data interface	375/371
18	US 20010046266 A1	20011129	149	Apparatus and method for scdma digital data transmission using orthogonal codes and head end modem with no tracking loops	375/259
19	US 20010024474 A1	20010927	149	Apparatus and method for trellis encoding data for transmission in digital data transmission systems	375/259
20	US 20010001616 A1	20010524	149	Apparatus and method for SCDMA digital data transmission using orthogonal codes and a head end modem with no tracking loops	375/259
21	US 6909739 B1	20050621	15	Signal acquisition system for spread spectrum receiver	375/152
22	US 6895062 B1	20050517	14	High speed serial interface	375/355
23	US 6763079 B1	20040713	38	Semiconductor device allowing easy confirmation of operation of built in clock generation circuit	375/376
24	US 6594329 B1	20030715	17	Elastic buffer	375/372
25	US 6477181 B1	20021105	44	Data communication method and system	370/476
26	US 6370200 B1	20020409	22	Delay adjusting device and method for plural transmission lines	375/257
27	US 6356555 B1	20020312	110	Apparatus and method for digital data transmission using orthogonal codes	370/441
28	US 6243378 B1	20010605	52	Method and apparatus for minimizing contention losses in networks	370/388
29	US 6198783 B1	20010306	70	System for wireless serial transmission of encoded information	375/346

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<b>16</b>	370/487; 370/503; 370/516	Rakib, Selim Shlomo et al.
<b>17</b>		Pickering, Andrew et al.
<b>18</b>	375/354; 375/371	Rakib, Selim Shlomo et al.
<b>19</b>	375/354	Rakib, Selim Shlomo et al.
<b>20</b>	375/344	Rakib, Selim Shlomo et al.
<b>21</b>	375/149; 375/150	Eerola; Ville et al.
<b>22</b>	375/316; 375/354	Wilson; Thomas J.
<b>23</b>	327/156	Iwamoto; Hisashi
<b>24</b>	710/57	Susnow; Dean S.
<b>25</b>	370/503	Fujimori; Junichi et al.
<b>26</b>	327/237; 375/354; 714/700	Takahashi; Satoshi
<b>27</b>	370/442; 370/478; 370/479; 370/480; 370/503	Rakib; Selim Shlomo et al.
<b>28</b>	340/2.21; 370/411; 379/220.0 1	Olnowich; Howard Thomas
<b>29</b>	375/219; 375/238; 375/239; 375/302	Campana, Jr.; Thomas J.

	Document ID	Issue Date	Pages	Title	Current OR
30	US 6044059 A	20000328	52	Method and apparatus for minimizing contention losses in networks	370/225
31	US 6028903 A	20000222	17	Delay lock loop with transition recycling for clock recovery of NRZ run-length encoded serial data signals	375/360
32	US 5991308 A	19991123	161	Lower overhead method for data transmission using ATM and SCDMA over hybrid fiber coax cable plant	370/395.53
33	US 5959995 A	19990928	22	Asynchronous packet switching	370/400
34	US 5946359 A	19990831	31	Parameter measuring apparatus for digital quadrature modulation signals	375/331
35	US 5892766 A	19990406	29	Method and apparatus for coordinating access to an output of a routing device in a packet switching network	370/412
36	US 5867541 A	19990202	25	Method and system for synchronizing data having skew	375/354
37	US 5854816 A	19981229	10	Loop back device of packet communication T1 network	375/376
38	US 5751773 A	19980512	90	System for wireless serial transmission of encoded information	375/346
39	US 5742644 A	19980421	91	Receiving circuitry for receiving serially transmitted encoded information	375/316
40	US 5694428 A	19971202	72	Transmitting circuitry for serial transmission of encoded information	375/260
41	US 5644604 A	19970701	12	Digital phase selector system and method	375/354
42	US 5610953 A	19970311	21	Asynchronous low latency data recovery apparatus and method	375/373

	<b>Current XRef</b>	<b>Inventor</b>
<b>30</b>	340/2.6; 370/384; 370/388; 379/272	Olnowich; Howard Thomas
<b>31</b>	375/375	Drost; Robert J. et al.
<b>32</b>	370/342; 370/395.5 2; 370/395.6 5; 370/474	Fuhrmann; Amir Michael et al.
<b>33</b>	370/351	Wicki; Thomas M. et al.
<b>34</b>	329/304; 375/332; 375/340	Tajiri; Shinsuke et al.
<b>35</b>		Wicki; Thomas Martin et al.
<b>36</b>	370/516; 375/231	Tanaka; Akira et al.
<b>37</b>	370/249; 375/221; 714/716	Kim; Si-Deog et al.
<b>38</b>	370/503; 370/506	Campana, Jr.; Thomas J.
<b>39</b>	370/503; 370/514	Campana, Jr.; Thomas J.
<b>40</b>	370/509	Campana, Jr.; Thomas J.
<b>41</b>		Larson; Jeffrey Dale
<b>42</b>	327/144; 375/369; 375/371	Betts; Robert et al.

	Document ID	Issue Date	Pages	Title	Current OR
43	US 5602878 A	19970211	10	Method of delivering stable data across an asynchronous interface	375/354
44	US 5594734 A	19970114	38	Asynchronous processor access to a switch table in a network with isochronous capability	370/395.53
45	US 5590160 A	19961231	16	Symbol and frame synchronization in both a TDMA system and a CDMA	375/367
46	US 5509038 A	19960416	8	Multi-path data synchronizer system and method	375/371
47	US 5490252 A	19960206	27	System having central processor for transmitting generic packets to another processor to be altered and transmitting altered packets back to central processor for routing	709/249
48	US 5432815 A	19950711	20	Data modulator-demodulator apparatus of a spread spectrum communication system	375/145
49	US 5359630 A	19941025	14	Method and apparatus for realignment of synchronous data	375/354
50	US 5299193 A	19940329	31	Signal interface for coupling a network front end circuit to a network adapter circuit	370/463
51	US 5241543 A	19930831	21	Independent clocking local area network and nodes used for the same	370/509
52	US 4965793 A	19901023	20	Method and apparatus for interfacing a system control unit for a multi-processor	370/236
53	US 4944038 A	19900724	12	Method and apparatus for utilization of dual latency stations for performance improvement of token ring networks	370/454
54	US 4876700 A	19891024	14	Data demodulator	375/333
55	US 4759014 A	19880719	31	Asynchronous-to-synchronous digital data multiplexer/demultiplexer with asynchronous clock regeneration	370/503

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<b>43</b>	370/298; 370/503; 375/220; 375/357; 375/377	Cross; Leonard W.
<b>44</b>	370/513; 709/242	Worsley; Debra J. et al.
<b>45</b>	370/342; 370/515; 375/149; 375/150	Ostman; Kjell
<b>46</b>	370/517; 375/375; 714/700	Wicki; Thomas M.
<b>47</b>	370/402; 370/468; 709/246	Macera; Mario et al.
<b>48</b>	375/141; 375/220; 375/257; 380/34	Kang; Dae-Sun et al.
<b>49</b>	375/362	Wade; Paul C. et al.
<b>50</b>	370/465	Szczepanek; Andre
<b>51</b>	375/356	Amada; Eiichi et al.
<b>52</b>	370/463; 370/516	Polzin; R. Stephen et al.
<b>53</b>		Hardy; R. H. Stephen et al.
<b>54</b>	375/376	Grindahl; Mervin L.
<b>55</b>	370/517; 370/535; 370/538; 370/543	Decker; David G. et al.



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56	US 4739321 A	19880419	93	Decentralized line reservation interface within a local data network	340/825.5
57	US 4679191 A	19870707	123	Variable bandwidth switching system	370/355
58	US 4638496 A	19870120	41	Secure reliable transmitting and receiving system for transfer of digital data	375/351
59	US 4627047 A	19861202	25	Integrated voice and data telecommunication switching system	370/384
60	US 4608559 A	19860826	31	Local modulated carrier data network with a collision avoidance protocol	340/825.5
61	US 4597077 A	19860624	124	Integrated voice/data/control switching system	370/352
62	US 4325146 A	19820413	27	Non-synchronous object identification system	398/108
63	US 4263673 A	19810421	8	Receive buffer for converting synchronous-to-asynchronous data	375/370
64	US 4099028 A	19780704	19	Asynchronous multiplexer-demultiplexer	370/479

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<b>56</b>	370/445	Friedman; Michael S. et al.
<b>57</b>	370/358; 370/468	Nelson; Gary A. et al.
<b>58</b>	455/212; 455/222	Jensen; Garold K.
<b>59</b>		Pitroda; Satyan G. et al.
<b>60</b>	370/462; 375/222	Friedman; Michael S. et al.
<b>61</b>	370/522	Nelson; Gary A. et al.
<b>62</b>	340/10.33; 340/10.42; 340/5.62; 340/5.7; 340/636.1 5; 340/928; 370/449; 370/475; 398/128; 398/170	Lennington; John W.
<b>63</b>	375/363	Bingham; John A. C. et al.
<b>64</b>	370/389; 370/535	Towson, IV; Jacob T.

	Document ID	Issue Date	Pages	Title	Current OR
1	US 6934749 B1	20050823	285	Tracking distributed data retrieval in a network device	709/224
2	US 6930890 B1	20050816	84	Network device including reverse orientated modules	361/788
3	US 6897497 B2	20050524	45	Methods, apparatus, and systems for reducing interference on nearby conductors	257/208
4	US 6880086 B2	20050412	364	Signatures for facilitating hot upgrades of modular software components	713/191
5	US 6876652 B1	20050405	114	Network device with a distributed switch fabric timing system	370/386
6	US 6868092 B1	20050315	115	Network device with embedded timing synchronization	370/503
7	US 6850415 B2	20050201	19	Methods and apparatus for circuit integration	361/752
8	US 6822876 B2	20041123	33	High-speed electrical router backplane with noise-isolated power distribution	361/788
9	US 6812803 B2	20041102	33	Passive transmission line equalization using circuit-board thru-holes	333/1
10	US 6760339 B1	20040706	84	Multi-layer network device in one telecommunications rack	370/401
11	US 6742134 B1	20040525	73	Maintaining a local backup for data plane processes	714/4
12	US 6715097 B1	20040330	77	Hierarchical fault management in computer systems	714/2
13	US 6708291 B1	20040316	77	Hierarchical fault descriptors in computer systems	714/39
14	US 6705895 B2	20040316	20	Orthogonal interface for connecting circuit boards carrying differential pairs	439/608

	<b>Current XRef</b>	<b>Inventor</b>
<b>1</b>	709/217; 709/223	Black; Darryl et al.
<b>2</b>	361/803	Branscomb; Brian
<b>3</b>	257/209; 257/210; 257/211; 257/664	Savaria; Yvon et al.
<b>4</b>	713/177; 713/200	Kidder; Joseph D. et al.
<b>5</b>	370/503; 375/376	Bell; Colin et al.
<b>6</b>	327/175; 370/401; 709/248; 713/400	Bell; Colin et al.
<b>7</b>	361/796; 361/802	Dimarco; Mario
<b>8</b>	361/794; 361/795	Goergen; Joel R.
<b>9</b>	333/236	Goergen; Joel R.
<b>10</b>	361/788; 370/469; 709/249	Noel; Chris R. et al.
<b>11</b>		Pothier; Peter et al.
<b>12</b>	718/104	Kidder; Joseph D. et al.
<b>13</b>	714/26; 714/27; 714/46; 714/57	Kidder; Joseph D.
<b>14</b>	439/108	Hasircoglu; Alexander W.

	Document ID	Issue Date	Pages	Title	Current OR
15	US 6703868 B2	20040309	45	Methods, apparatus, and systems for reducing interference on nearby conductors	326/101
16	US 6671699 B1	20031230	76	Shared database usage in network devices	707/201
17	US 6658580 B1	20031202	106	Redundant, synchronous central timing systems with constant master voltage controls and variable slave voltage controls	713/400
18	US 6658579 B1	20031202	119	Network device with local timing systems for automatic selection between redundant, synchronous central timing systems	713/400
19	US 6654903 B1	20031125	76	Vertical fault isolation in a computer system	714/4
20	US 6639910 B1	20031028	16	Functional separation of internal and external controls in network devices	370/351
21	US 6601186 B1	20030729	73	Independent restoration of control plane and data plane functions	714/4
22	US 6332198 B1	20011218	78	Network device for supporting multiple redundancy schemes	714/6
23	US 6184702 B1	20010206	24	Crosstalk prevention circuit	326/21
24	US 6114890 A	20000905	112	Skew-reduction circuit	327/170
25	US 6110221 A	20000829	12	Repeater blocks adjacent clusters of circuits	716/8
26	<u>US 6081146 A</u>	20000627	18	Interface circuit and interface circuit delay time controlling method	327/277
27	US 6015300 A	20000118	10	Electronic interconnection method and apparatus for minimizing propagation delays	439/61

	<b>Current XRef</b>	<b>Inventor</b>
<b>15</b>	326/47; 326/86; 327/261; 327/403; 327/565	Savaria; Yvon et al.
<b>16</b>	707/200	Black; Darryl et al.
<b>17</b>	331/2; 713/500	Bell; Colin et al.
<b>18</b>	713/500	Bell; Colin et al.
<b>19</b>	714/43	Sullivan, Jr.; Daniel J. et al.
<b>20</b>	370/254	Provencher; Roland T. et al.
<b>21</b>	714/44; 719/321; 719/327	Fox; Barbara A. et al.
<b>22</b>	370/217; 370/220; 714/41	Simons; Corey et al.
<b>23</b>	257/659; 257/E23.1 44; 326/101; 326/93; 327/382; 327/403	Takahashi; Hiroshi et al.
<b>24</b>		Okajima; Yoshinori et al.
<b>25</b>	326/41; 326/82; 716/14	Pai; Yet-Ping et al.
<b>26</b>	327/149; 327/158; 327/271	Shiochi; Masuzumi et al.
<b>27</b>	361/788	Schmidt, Jr.; Raymond J. et al.

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28	US 6008705 A <u>                    </u>	19991228	8	Crosstalk suppression in wide, high-speed buses	333/1
29	US 5994946 A <u>                    </u>	19991130	7	Alternating inverters for capacitive coupling reduction in transmission lines	327/403
30	US 5994766 A <u>                    </u>	19991130	12	Flip chip circuit arrangement with redistribution layer that minimizes crosstalk	257/659
31	JP 06184702 A	19940705	5	LOW THERMAL EXPANSION ALLOY AND ALLOY STRIP FOR SHADOW MASK	
32	JP 06114890 A	19940426	8	INJECTION MOLDING MOLD	
33	JP 06110221 A	19940422	10	ELECTROSTATIC INFORMATION RECORDING MEDIUM AND ELECTROSTATIC INFORMATION RECORDING MEDIUM	
34	JP 06081146 A	19940322	4	MAGNETRON SPUTTERING DEVICE	
35	JP 06008705 A	19940118	5	WHEEL	
36	US 6015300 A <u>                    </u>	20000118	10	Electronic interconnection system for minimizing propagation delays	
37	JP 06184702 A	19940705	5	Low thermal expansion alloy and alloy strip for shadow mask - comprises nickel@, carbon, silicon@, manganese@, phosphorus, sulphur, chromium@, oxygen, nitrogen, boron@ and iron@	
38	JP 06114890 A	19940426	8	Moulds for injection moulding resin products - has 1st and 2nd changeover arms connected to movable side cavity unit and fixed side bottom plate respectively, rotator with cam projections, etc.	

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28	327/551; 333/12	Ghoshal; Uttam Shymalindu
29	257/E23.1 44; 327/261	Zhang; Xiaonan
30	257/664; 257/691; 257/E21.5 11; 257/E23.1 14; 257/E23.1 51	Shenoy; Jayarama N. et al.
31		TAKEMOTO, TOSHIHIKO et al.
32	425/595	SAITO, KAZUO et al.
33	430/57.7	SUGIYAMA, KAYOKO
34		SHIRAISHI, YASUSHI
35		FUKUBEYAMA, SEIYA
36		DEANGELIS, P L et al.
37		
38		



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39	JP 06110221 A	19940422	10	Electrostatic information recording medium - includes resin layer of low trap opening temp of charge obtd by thermal stimulus electric current measurement and insulating layer of high trap opening temp	
40	JP 06081146 A	19940322	4	Magnetron type sputtering appts. - including shutter plate between target and substrate and revolving shaft	
41	JP 06015300 A	19940125	15	Sludge dehydrating agent with stable and high dehydrating rate - contains water soluble vinyl! polymer	
42	JP 06008705 A	19940118	5	Wheel set for vehicles of transportation system e.g. cable cars - has elastic member between pair of elastic members having lower stiffness and made from different material	

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39		
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41		IMAMURA, K et al.
42		